

[First Hit](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)

End of Result Set

[Generate Collection](#) [Print](#)

L43: Entry 1 of 1

File: EPAB

May 20, 1999

PUB-NO: WO009924633A1

DOCUMENT-IDENTIFIER: WO 9924633 A1

TITLE: STAINLESS STEEL COATED WITH INTERMETALLIC COMPOUND AND PROCESS FOR PRODUCING THE SAME

PUBN-DATE: May 20, 1999

INVENTOR-INFORMATION:

| NAME | COUNTRY |
|-------------------|---------|
| YOSHIDA, HIROAKI | JP |
| YAMADA, HIROSHI | JP |
| IWANE, FUMIO | JP |
| IMAI, JUNJI | JP |
| HAMADA, TADASHI | JP |
| FUJIMOTO, SHINJI | JP |
| YAMADA, SHUJI | JP |
| SAKON, SHIGETOSHI | JP |

ASSIGNEE-INFORMATION:

| NAME | COUNTRY |
|-------------------------------|---------|
| DAIDO STEEL CO LTD | JP |
| MATSUSHITA ELECTRIC WORKS LTD | JP |
| YOSHIDA HIROAKI | JP |
| YAMADA HIROSHI | JP |
| IWANE FUMIO | JP |
| IMAI JUNJI | JP |
| HAMADA TADASHI | JP |
| FUJIMOTO SHINJI | JP |
| YAMADA SHUJI | JP |
| SAKON SHIGETOSHI | JP |

APPL-NO: JP09805082

APPL-DATE: November 11, 1998

PRIORITY-DATA: JP32944797A (November 12, 1997)

INT-CL (IPC): C23 C 10/28

EUR-CL (EPC): C23C026/00; C23C028/02

ABSTRACT:

CHG DATE=19990702 STATUS=O>A stainless steel coated with an intermetallic compound and excellent in rigidity, toughness, wearing resistance, and corrosion resistance,

which comprises a base made of a martensitic stainless steel having a Vickers hardness of 400 or higher and a hard coating whose lower side is tightly adherent to the base while the upper side is exposed. The hard coating has the outermost layer made of any one of a Ti-Ni intermetallic compound, a Ti-Fe intermetallic compound, and a mixture of a Ti-Ni intermetallic compound with a Ti-Cu intermetallic compound. The coated stainless steel is produced by cladding a martensitic stainless steel with titanium or a titanium alloy either directly or through an interlayer made of nickel, iron, or a Ni-Cu alloy to prepare a laminate, holding this laminate at 900 to 1,150 DEG C for 30 seconds to 5 minutes, and then cooling it at a rate of 1 DEG C/sec or higher.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)